

## SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

### X-VIS™

Revision Date: 04-Jan-2011

Revision Number: 7

#### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product Identifier**

**Product Name** X-VIS™

**Relevant identified uses of the substance or mixture and uses advised against**

**Recommended Use** Viscosifier  
**Uses Advised Against** No information available

**Details of the supplier of the safety data sheet**

Halliburton Manufacturing Services, Ltd.  
Halliburton House, Howemoss Crescent  
Kirkhill Industrial Estate  
Dyce  
Aberdeen, AB21 0GN  
United Kingdom

Emergency Phone Number: +44 1224 795277 or +1 281 575 5000

[www.halliburton.com](http://www.halliburton.com)

For further information, please contact

**E-Mail address:** [fdunexchem@halliburton.com](mailto:fdunexchem@halliburton.com)

**Emergency telephone number**

+44 1224 795277 or +1 281 575 5000

| Emergency telephone §45 - (EC)1272/2008 |   |
|---|---|
| <b>Europe</b>                           | <b>112</b>  |
| <b>Denmark</b>                          | Poison Control Hotline (DK): +45 82 12 12 12  |
| <b>France</b>                           | ORFILA (FR): + 01 45 42 59 59   |
| <b>Germany</b>                          | Poison Center Berlin (DE): +49 030 30686 790  |
| <b>Italy</b>                            | Poison Center, Milan (IT): +39 02 6610 1029   |
| <b>Netherlands</b>                      | National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals) |
| <b>Norway</b>                           | Poisons Information (NO): + 47 22 591300  |
| <b>Poland</b>                           | Poison Control and Information Centre, Warsaw (PL): +48 22 619 66 54; +48 22 619 08 97                                  |
| <b>Spain</b>                            | Poison Information Service (ES): +34 91 562 04 20   |
| <b>United Kingdom</b>                   | NHS Direct (UK): +44 0845 46 47   |

#### 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture**  
REGULATION (EC) No 1272/2008

Not classified

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**  
For the full text of the R-phrases mentioned in this Section, see Section 16

**Classification** Not Classified

## 2. HAZARDS IDENTIFICATION

**Risk Phrases** None

### Label Elements

Not classified

**Hazard Pictograms**

**Signal Word** Not Hazardous

### **Contains**

#### **Substances**

Fatty acids, C18 unsaturated, dimers

#### **CAS Number**

61788-89-4

### Other Hazards

None known

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Substances                           | EINECS    | CAS Number | PERCENT   | EEC Classification | EU - CLP Substance Classification | REACH No.         |
|--------------------------------------|-----------|------------|-----------|--------------------|-----------------------------------|-------------------|
| Fatty acids, C18 unsaturated, dimers | 500-148-0 | 61788-89-4 | 60 - 100% | Not applicable     | Not applicable                    | No data available |

For the full text of the R-phrases mentioned in this Section, see Section 16

## 4. FIRST AID MEASURES

### Description of first aid measures

#### **Inhalation**

If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

#### **Eyes**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

#### **Skin**

Wash with soap and water. Get medical attention if irritation persists.

#### **Ingestion**

Under normal conditions, first aid procedures are not required.

### Most Important symptoms and effects, both acute and delayed

No significant hazards expected.

### Indication of any immediate medical attention and special treatment needed

#### **Notes to Physician**

Treat symptomatically

## 5. FIREFIGHTING MEASURES

### Extinguishing media

#### **Suitable Extinguishing Media**

Water fog, carbon dioxide, foam, dry chemical.

#### **Extinguishing media which must not be used for safety reasons**

None known.

### Special hazards arising from the substance of mixture

#### **Special Exposure Hazards**

Decomposition in fire may produce toxic gases.

**Advice for firefighters****Special Protective Equipment for Fire-Fighters**

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

Use appropriate protective equipment.  
See Section 12 for additional information

**Environmental precautions**

Prevent from entering sewers, waterways, or low areas.

**Methods and material for containment and cleaning up**

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials. Scoop up and remove.

**Reference to other sections**

See Section 12 for additional information.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling**

Avoid contact with eyes, skin, or clothing. Wash hands after use.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice

**Conditions for safe storage, including any incompatibilities**

Store away from oxidizers. Store in a cool, dry location. Product has a shelf life of 36 months.

**Specific End Use(s)**

**Exposure Scenario** No information available

**Other Guidelines** No information available

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

| Substances                           | EU             | UK OEL         | Netherlands    | France OEL     | Germany MAK/TRK |
|--------------------------------------|----------------|----------------|----------------|----------------|-----------------|
| Fatty acids, C18 unsaturated, dimers | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable  |

| Substances                           | Italy          | Poland         | Hungary        | Czech Republic | Denmark        |
|--------------------------------------|----------------|----------------|----------------|----------------|----------------|
| Fatty acids, C18 unsaturated, dimers | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

**Exposure controls**

**Engineering Controls** Use in a well ventilated area.

**Personal protective equipment****Respiratory Protection**

Not normally needed. But if significant exposures are possible then the following respirator is recommended:  
Organic vapor respirator.

**Hand Protection**

Impervious rubber gloves.

**Skin Protection**

Normal work coveralls.

**Eye Protection**

Wear safety glasses or goggles to protect against exposure.

**Other Precautions**

Eyewash fountains and safety showers must be easily accessible.

**Environmental Exposure Controls**

No information available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

**Physical State:** Liquid      **Color:** Amber  
**Odor:** Fatty acid      **Odor Threshold:** No information available

| <u>Property</u><br><u>Remarks/ Method</u>     | <u>Values</u>            |
|---|--------------------------|
| <b>pH:</b>                                    | No data available        |
| <b>Melting Point/Range</b>                    | No data available        |
| <b>Freezing Point/Range (C):</b>              | No data available        |
| <b>Boiling Point/Range</b>                    | 300°C                    |
| <b>Flash Point</b>                            | 247°C                    |
| Cleveland closed cup                          |                          |
| <b>Evaporation rate</b>                       | < 1                      |
| <b>Vapor Pressure</b>                         | < 0.001 mmHg             |
| <b>Vapor Density</b>                          | No data available        |
| <b>Specific Gravity</b>                       | 0.96                     |
| <b>Water Solubility</b>                       | Insoluble in water       |
| <b>Solubility in other solvents</b>           | No data available        |
| <b>Partition coefficient: n-octanol/water</b> | No data available        |
| <b>Autoignition Temperature</b>               | No data available        |
| <b>Decomposition Temperature</b>              | No data available        |
| <b>Viscosity</b>                              | No data available        |
| <b>Explosive Properties</b>                   | No information available |
| <b>Oxidizing Properties</b>                   | No information available |

### Other information

**VOC Content (%)**      No data available

## 10. STABILITY AND REACTIVITY

### Reactivity

Not applicable

### Chemical Stability

Stable

### Possibility of Hazardous Reactions

Will Not Occur

### Conditions to Avoid

None anticipated

### Incompatible Materials

Strong oxidizers.

### Hazardous Decomposition Products

Carbon monoxide and carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects

#### Acute Toxicity

|                     |                                 |
|---------------------|---------------------------------|
| <b>Inhalation</b>   | None known.                     |
| <b>Eye Contact</b>  | May cause mild eye irritation.  |
| <b>Skin Contact</b> | May cause mild skin irritation. |
| <b>Ingestion</b>    | None known                      |

**Chronic Effects/Carcinogenicity** No data available to indicate product or components present at greater than 1% are chronic health hazards.

| Substances                           | LD50 Oral      | LD50 Dermal       | LC50 Inhalation   |
|--------------------------------------|----------------|-------------------|-------------------|
| Fatty acids, C18 unsaturated, dimers | > 20,000 mg/kg | No data available | No data available |

## 12. ECOLOGICAL INFORMATION

### Toxicity Ecotoxicity Effects

| Substances                           | Toxicity to Algae        | Toxicity to Fish         | Toxicity to Microorganisms | Daphnia Magna (Water Flea) |
|--------------------------------------|--------------------------|--------------------------|----------------------------|----------------------------|
| Fatty acids, C18 unsaturated, dimers | No information available | No information available | No information available   | No information available   |

### Persistence and degradability No information available

### Bioaccumulative potential No information available

### Mobility in soil No information available

### Results of PBT and vPvB assessment No information available.

### Other adverse effects

#### Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

#### Disposal Method

Disposal should be made in accordance with federal, state, and local regulations.

#### Contaminated Packaging

Follow all applicable national or local regulations.

## 14. TRANSPORT INFORMATION

### IMDG/IMO

UN Number: Not restricted.  
UN Proper Shipping Name: Not restricted  
Transport Hazard Class(es): Not applicable

### RID

UN Number: Not restricted.  
UN Proper Shipping Name: Not restricted  
Transport Hazard Class(es): Not applicable

### ADR

UN Number: Not restricted.  
UN Proper Shipping Name: Not restricted  
Transport Hazard Class(es): Not applicable

### IATA/ICAO

UN Number: Not restricted.  
UN Proper Shipping Name: Not restricted  
Transport Hazard Class(es): Not applicable

**14. TRANSPORT INFORMATION**

**Special Precautions for User** None  
**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable

**15. REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture****International Inventories**

**EINECS Inventory** This product does not comply with EINECS  
**US TSCA Inventory** All components listed on inventory or are exempt.  
**Canadian DSL Inventory** All components listed on inventory or are exempt.

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**Germany, Water Endangering Classes (WGK)** WGK 1: Low hazard to waters.

**Chemical Safety Assessment**

No information available

**16. OTHER INFORMATION**

**Full text of R-phrases referred to under Sections 2 and 3**  
None

**Key literature references and sources for data**

[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)

**Revision Date:** 04-Jan-2011  
**Revision Note** Not applicable

**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**Disclaimer Statement**

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**End of Safety Data Sheet**